

Recovery Plan Action Status

Plan Name: Recovery Plan *Leptocereus grantianus* (NCN)

Plan Status: Final

Plan Date: 26-Jul-95

Lead Agency: USFWS

Lead Office: Caribbean Ecological Services Field Office

(787)
851-7297)

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
No common name (<i>Leptocereus grantianus</i>)	1	1	Obtain protective status for the known population site	Planned	FY 2008	FY 2012	Puerto Rico Department of Natural and Environmental Resources, U.S. Fish and Wildlife Service, Office of Endangered Species, USFWS Regional Office 4, Municipality of Culebra	Research: General	Internal Technical Assistance, Volunteer	In coordination with DNER and municipality of Culebra. No cost anticipated
No common name (<i>Leptocereus grantianus</i>)	2	10	Assess seed production and dispersal	Not Started			Universities, Puerto Rico Department of Natural and Environmental Resources, U.S. Fish and Wildlife Service, Office of Endangered Species	Research: Other Information, Research: Predation	Contract, Graduate Student, Internal Field Assistance, Internal Technical Assistance, Species Expert	In coordination with universities and non-government organizations.
No common name (<i>Leptocereus grantianus</i>)	2	11	Evaluate seed viability and germination requirement	Partially Complete	FY 2008	FY 2011	Universities, Puerto Rico Department of Natural and Environmental Resources, U.S. Fish and Wildlife Service, Office of Endangered Species	Research: Other Information	Graduate Student, Internal Field Assistance, Internal Technical Assistance, Species Expert	In coordination with universities "Rio Piedras" and non-government organizations. Fruits collected by the UPRRP show a high germination % at greenhouse conditions.
No common name (<i>Leptocereus grantianus</i>)	2	12	Evaluate requirements for establishment and growth	Not Started			Universities, Puerto Rico Department of Natural and Environmental Resources, U.S. Fish and Wildlife Service, Office of Endangered Species	Research: Other Information	Graduate Student, Internal Field Assistance, Internal Technical Assistance, Species Expert	In coordination with universities and non-government organizations.

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No common name (Leptocereus grantianus)	2	13	Assess methods of propagation	Partially Complete	FY 2008	FY 2011	Botanical Gardens, Universities, Puerto Rico Department of Natural and Environmental Resources, U.S. Fish and Wildlife Service, Office of Endangered Species	Management: Propagation, Research: Propagation	Contract, Graduate Student, Internal Field Assistance, Internal Technical Assistance, Species Expert	In coordination with DNER, universities, and non-government organizations.
No common name (Leptocereus grantianus)	2	14	Develop artificial propagation program	Ongoing Current	FY 2000 - FY 2004	FY 2012	Botanical Gardens, Universities, Puerto Rico Department of Natural and Environmental Resources, U.S. Fish and Wildlife Service, Office of Endangered Species	Research: Propagation	Contract, Graduate Student, Internal Technical Assistance, Species Expert	In coordination with universities and non-government organizations.
No common name (Leptocereus grantianus)	2	15	Select sites and assess habitat suitability	Ongoing Current	FY 2008	FY 2012	Puerto Rico Department of Natural and Environmental Resources, U.S. Fish and Wildlife Service, Office of Endangered Species, Municipality of Culebra	Research	Contract, Graduate Student, Internal Field Assistance, Internal Technical Assistance, Species Expert	In coordination with universities and non-government organizations.
No common name (Leptocereus grantianus)	2	16	Assure site protection	Planned	FY 2008	FY 2012	Puerto Rico Department of Natural and Environmental Resources, U.S. Fish and Wildlife Service, Office of Endangered Species, USFWS Culebra National Wildlife Refuge	Acquisition: General	Internal Technical Assistance, Volunteer	In coordination with universities and non-government organizations.
No common name (Leptocereus grantianus)	2	17	Introduction of plants	Ongoing Current	FY 2000 - FY 2004	FY 2012	Puerto Rico Department of Natural and Environmental Resources, U.S. Fish and Wildlife Service, Office of Endangered Species, USFWS Culebra National Wildlife Refuge	Management: Reintroduction	Internal Administrative, Internal Technical Assistance, Volunteer	In coordination with universities and non-government organizations. The Service is planning to establish populations within the Culebra Island NWR.

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No common name (Leptocereus grantianus)	3	18	Determine number of individuals and populations to ensure stability and self-perpetuation	Ongoing Not Current	FY 2008	FY 2012	Puerto Rico Department of Natural and Environmental Resources, U.S. Fish and Wildlife Service, Office of Endangered Species	Research: General	Contract, Graduate Student, Internal Field Assistance, Internal Technical Assistance, Species Expert	In coordination with universities and non-government organizations.
No common name (Leptocereus grantianus)	3	19	Determine what additional actions are needed to achieve recovery objectives	Ongoing Current	FY 2008	FY 2012	Puerto Rico Department of Natural and Environmental Resources, U.S. Fish and Wildlife Service, Office of Endangered Species	Acquisition: General, Management: General, Research: General	Internal Administrative, Internal Field Assistance, Internal Technical Assistance, Species Expert	In coordination with DNER and the municipality of Culebra.
No common name (Leptocereus grantianus)	1	2	Develop a management plan, which provides for the protection of the species, with DNER and the municipality of Culebra	Not Started			Puerto Rico Department of Natural and Environmental Resources, U.S. Fish and Wildlife Service, Office of Endangered Species, Municipality of Culebra	Management: Land Use, Management: Planning, Other: Law Enforcement, Other: Regulations	Internal Administrative, Internal Technical Assistance, Species Expert	In coordination with DNER and the municipality of Culebra.
No common name (Leptocereus grantianus)	1	3	Monitor known population	Ongoing Current	FY 2008	FY 2011	Universities, Puerto Rico Department of Natural and Environmental Resources, U.S. Fish and Wildlife Service, Office of Endangered Species	Research: Population Assessment	Contract, Graduate Student, Internal Field Assistance, Internal Technical Assistance, Species Expert	In coordination with universities and non-government organizations.
No common name (Leptocereus grantianus)	1	4	Enforce existing Commonwealth and Federal endangered species regulations	Ongoing Current	Prior to FY 1995	FY 2012	U.S. Fish and Wildlife Service, Law Enforcement Division, Puerto Rico Department of Natural and Environmental Resources, U.S. Fish and Wildlife Service, Office of Endangered Species, USFWS Regional Office 4	Other: Law Enforcement, Other: Regulations	Internal Administrative, Internal Technical Assistance, Species Expert	In coordination with DNER.

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No common name (Leptocereus grantianus)	2	5	Educate the public on plant conservation values and regulations	Ongoing Current	FY 1995 - FY 1999	FY 2012	Puerto Rico Department of Natural and Environmental Resources, U.S. Fish and Wildlife Service, Office of Endangered Species, USFWS Regional Office 4	Other: Information and Education	Internal Administrative, Internal Technical Assistance	Species is included in public education programs.
No common name (Leptocereus grantianus)	2	6	Identify and inventory potential sites	Partially Complete	FY 1995 - FY 1999	FY 2012	Puerto Rico Department of Natural and Environmental Resources, U.S. Fish and Wildlife Service, Office of Endangered Species	Research: General, Research: Habitat Requirements, Research: Population Surveys	Graduate Student, Internal Field Assistance, Internal Technical Assistance, Species Expert, Volunteer	In coordination with DNER, universities, and non-government organizations.
No common name (Leptocereus grantianus)	2	7	Characterize sites to determine their suitability as future recovery sites	Ongoing Current	FY 1995 - FY 1999	FY 2012	U.S. Fish and Wildlife Service, Law Enforcement Division, Universities, Puerto Rico Department of Natural and Environmental Resources, U.S. Fish and Wildlife Service, Office of Endangered Species, USFWS Culebra National Wildlife Refuge	Acquisition: General, Research: Habitat Status, Research: Management Techniques, Research: Propagation	Internal Field Assistance, Internal Technical Assistance, Species Expert	In coordination with DNER
No common name (Leptocereus grantianus)	2	8	Define habitat requirements	Ongoing Current	FY 2008	FY 2011	Universities, Puerto Rico Department of Natural and Environmental Resources, U.S. Fish and Wildlife Service, Office of Endangered Species	Research: Habitat Requirements	Graduate Student, Internal Field Assistance, Species Expert	In coordination with DNER
No common name (Leptocereus grantianus)	2	9	Assess periodicity of flowering	Not Started			Universities, Puerto Rico Department of Natural and Environmental Resources, U.S. Fish and Wildlife Service, Office of Endangered Species	Research: Other Information	Graduate Student, Internal Field Assistance, Internal Technical Assistance, Species Expert	